20020-950501

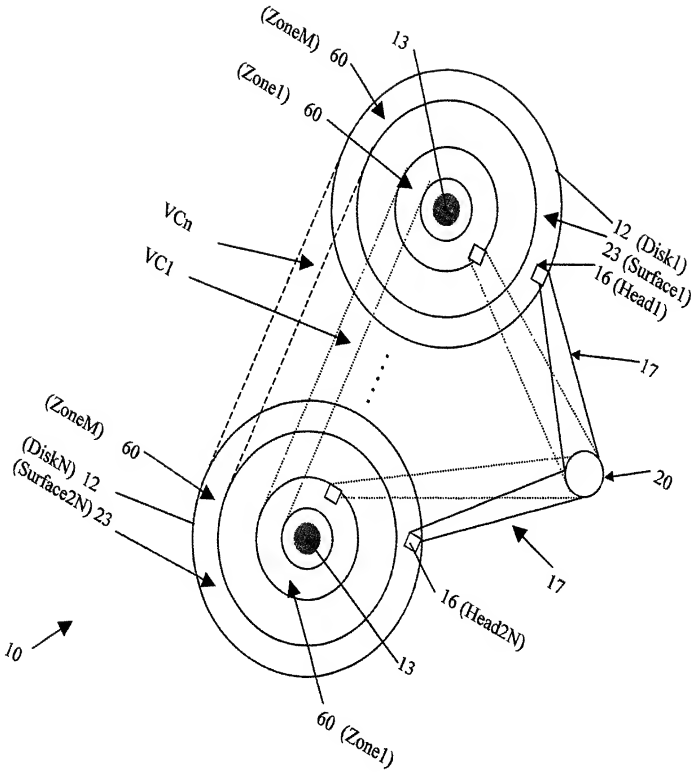

FIG. 1A

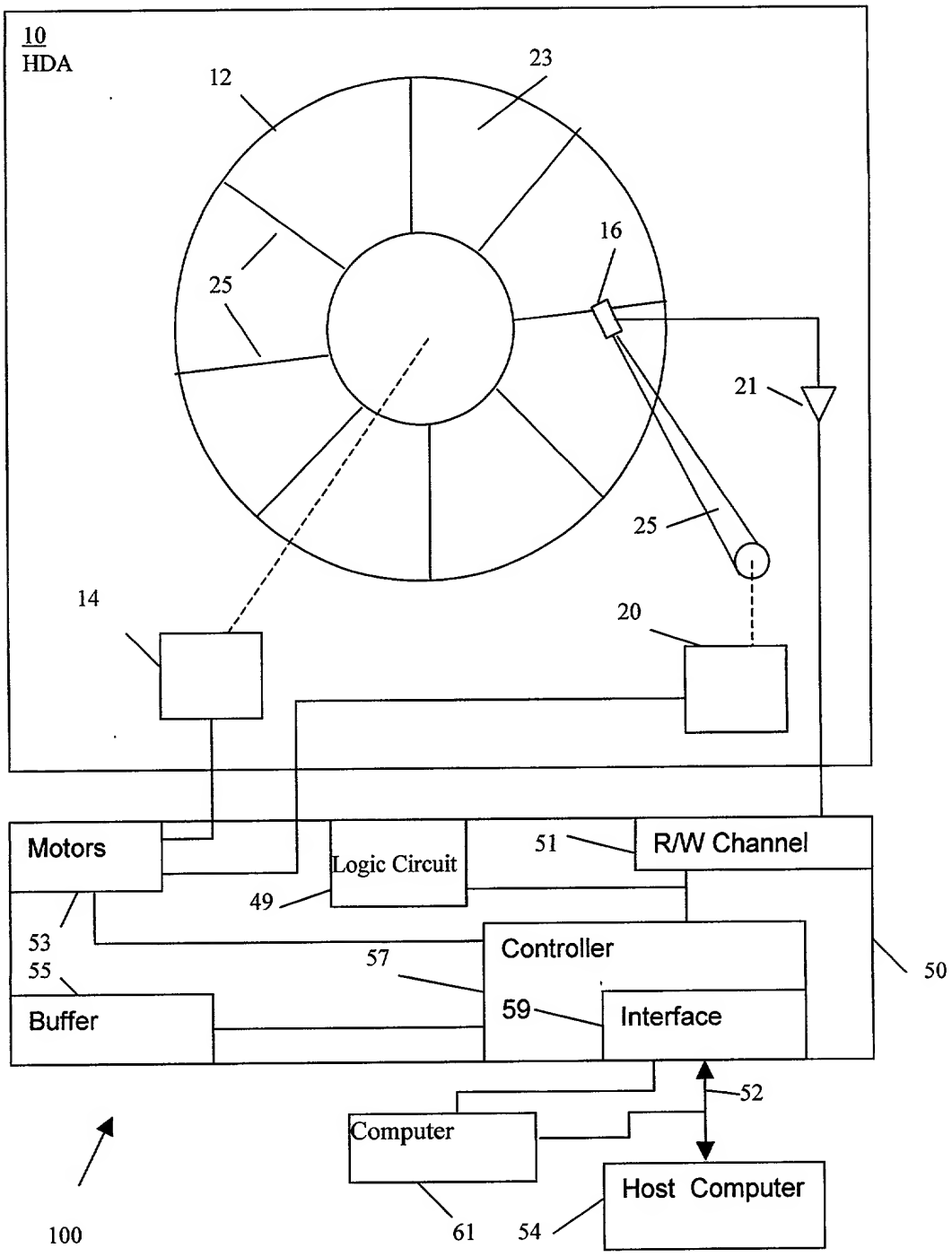
10
HDA
12
23
16
25
21
25
14
20
Motors
Logic Circuit
51
R/W Channel
49
53
55
57
Controller
50
Buffer
59
Interface
52
Computer
Host Computer
100
61
54

FIG. 1B

1005656.02456.02

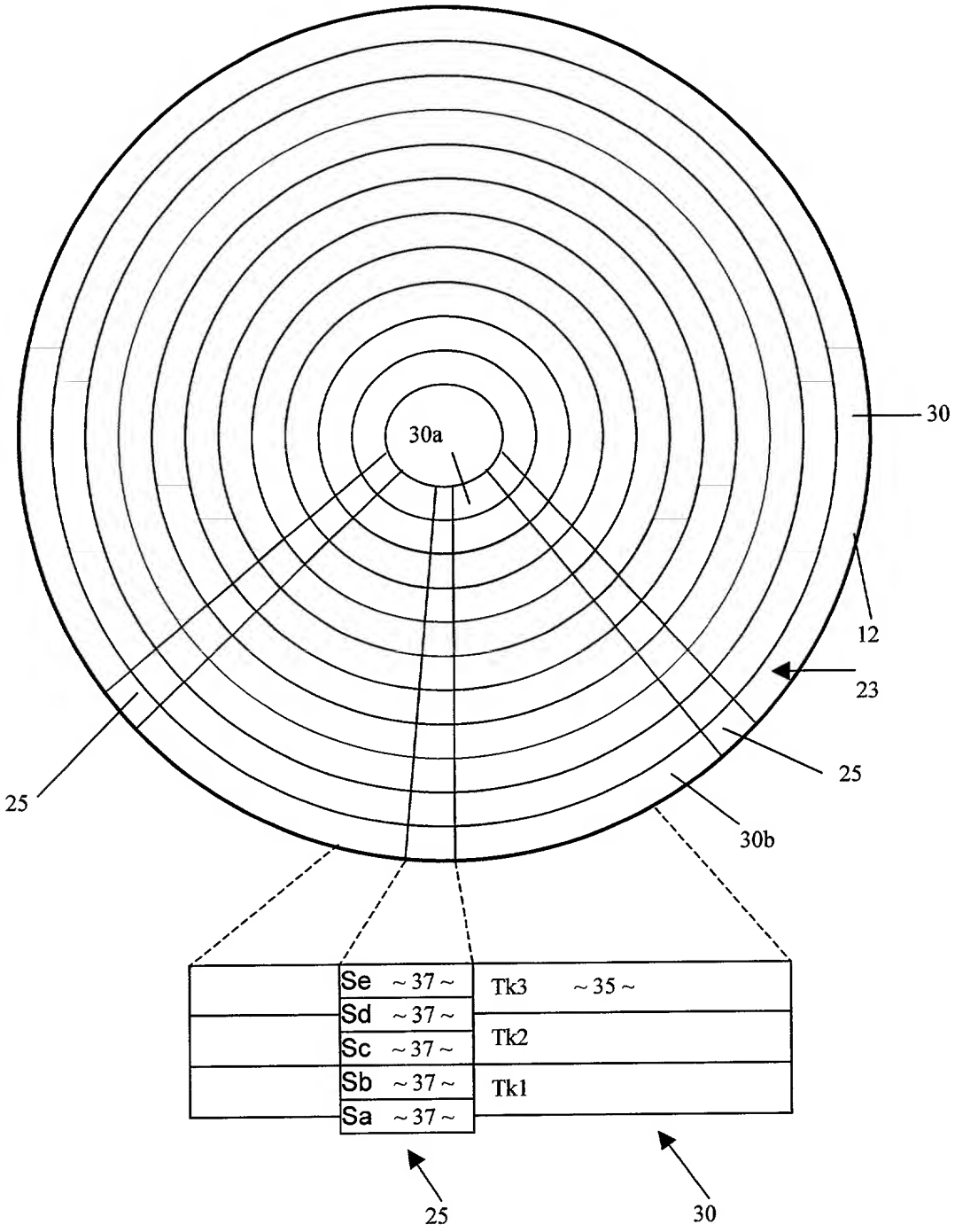

FIG. 1C

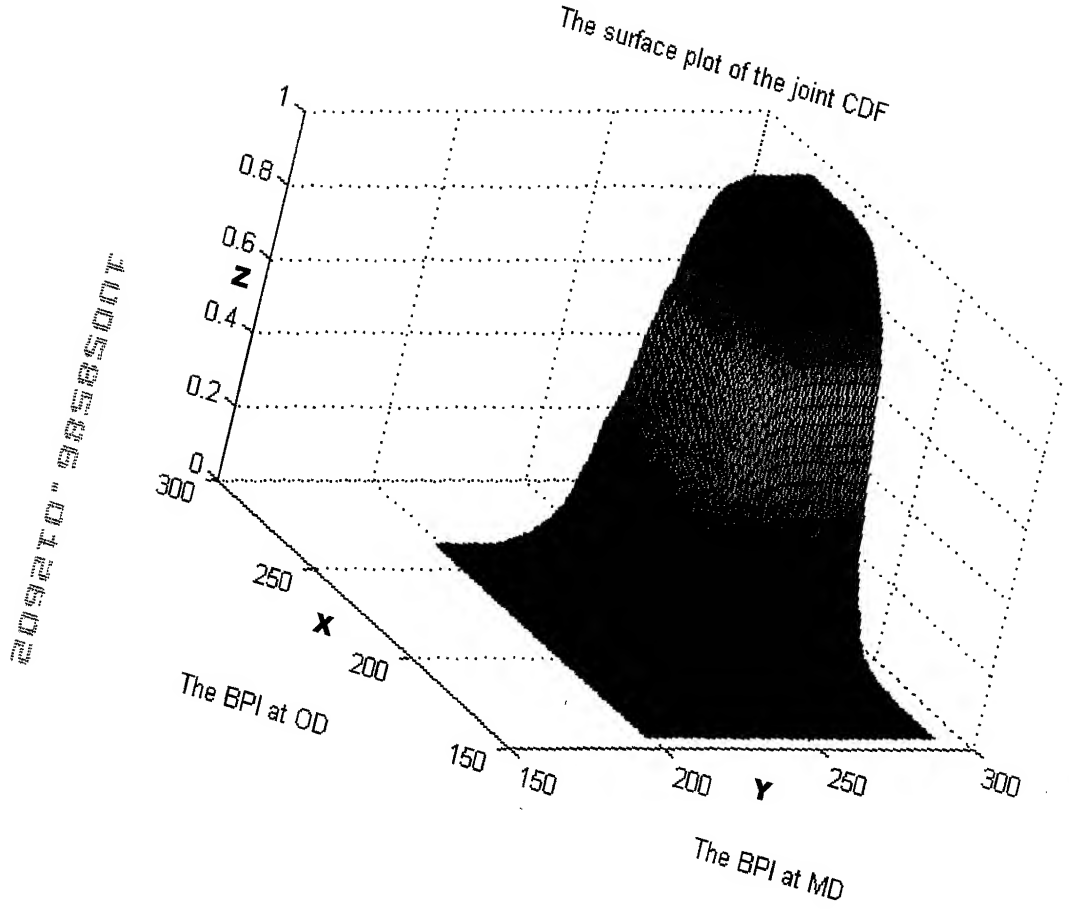
The surface plot of the joint CDF
1
0.8
0.6
Z
0.4
0.2
0
300
250
X
200
150
The BPI at OD
150
200
Y
250
300
The BPI at MD

FIG. 2C

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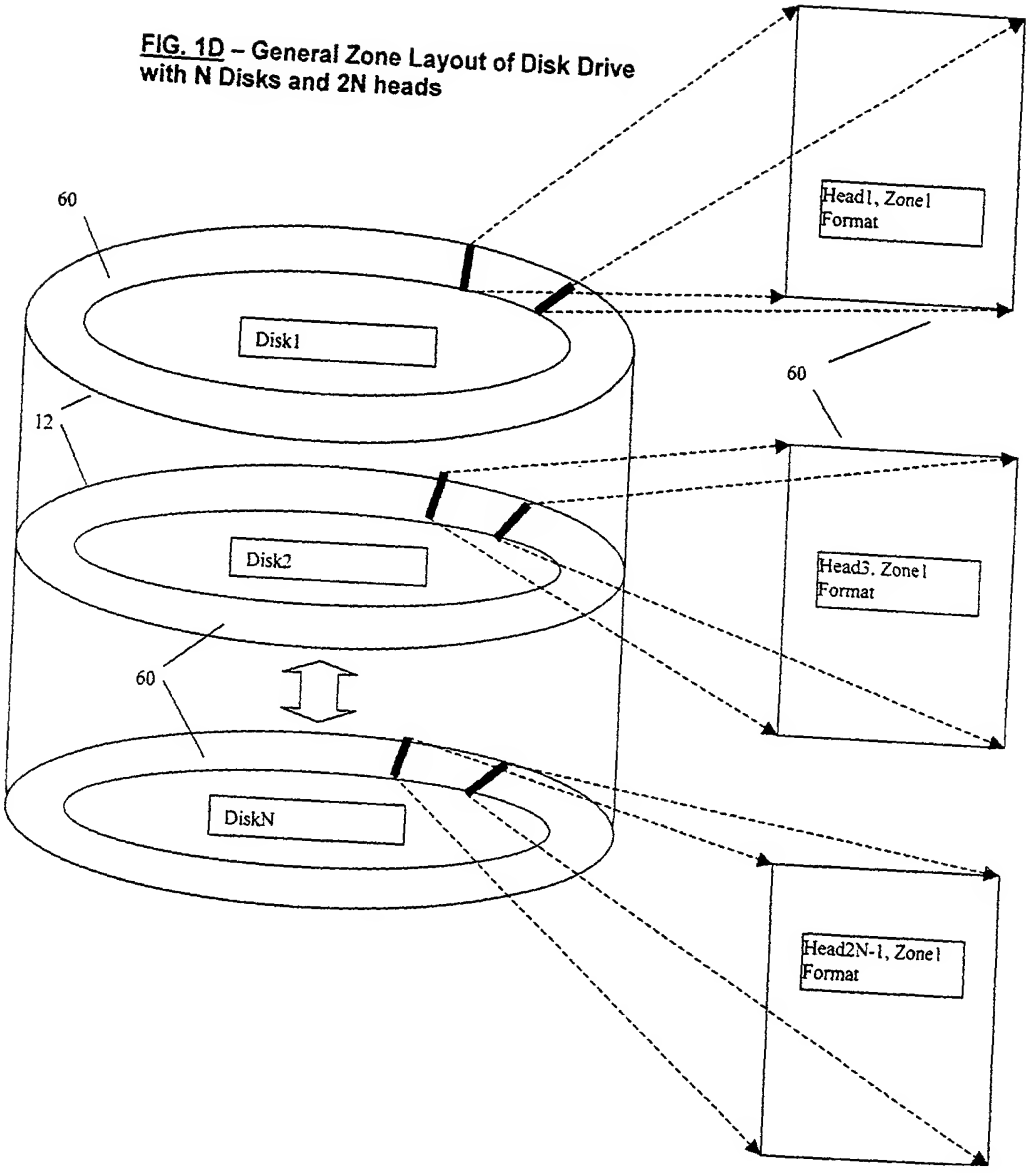
FIG. 1D – General Zone Layout of Disk Drive with N Disks and 2N heads



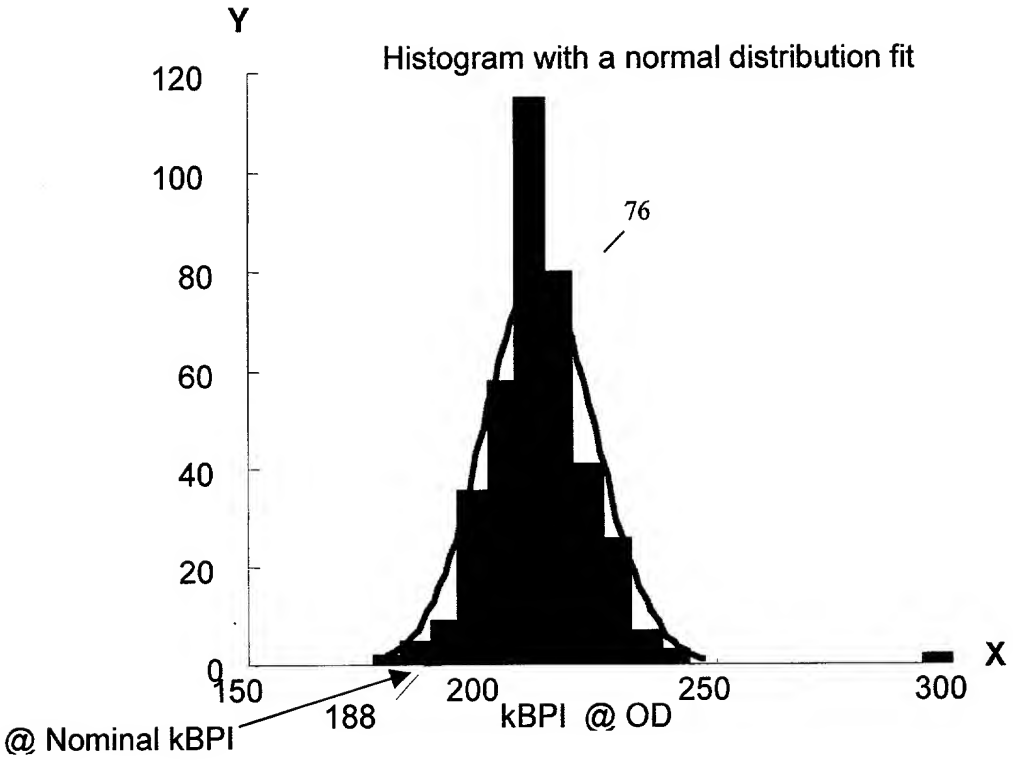
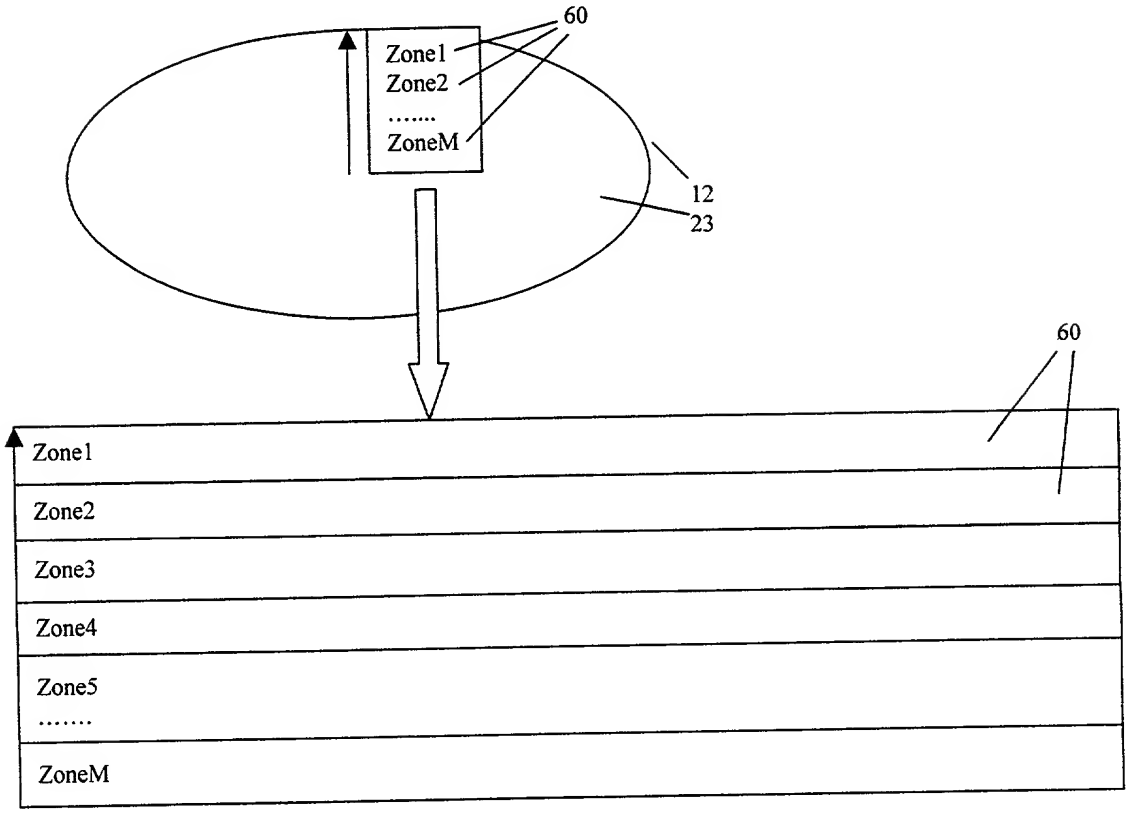

Y
Histogram with a normal distribution fit
120
100
80
60
40
20
0
76
X
150
188
200
250
300
@ Nominal kBPI
kBPI @ OD

FIG. 2D

FIG. 1E – Capacity Zones for a drive surface



HGST 2006-0139-02

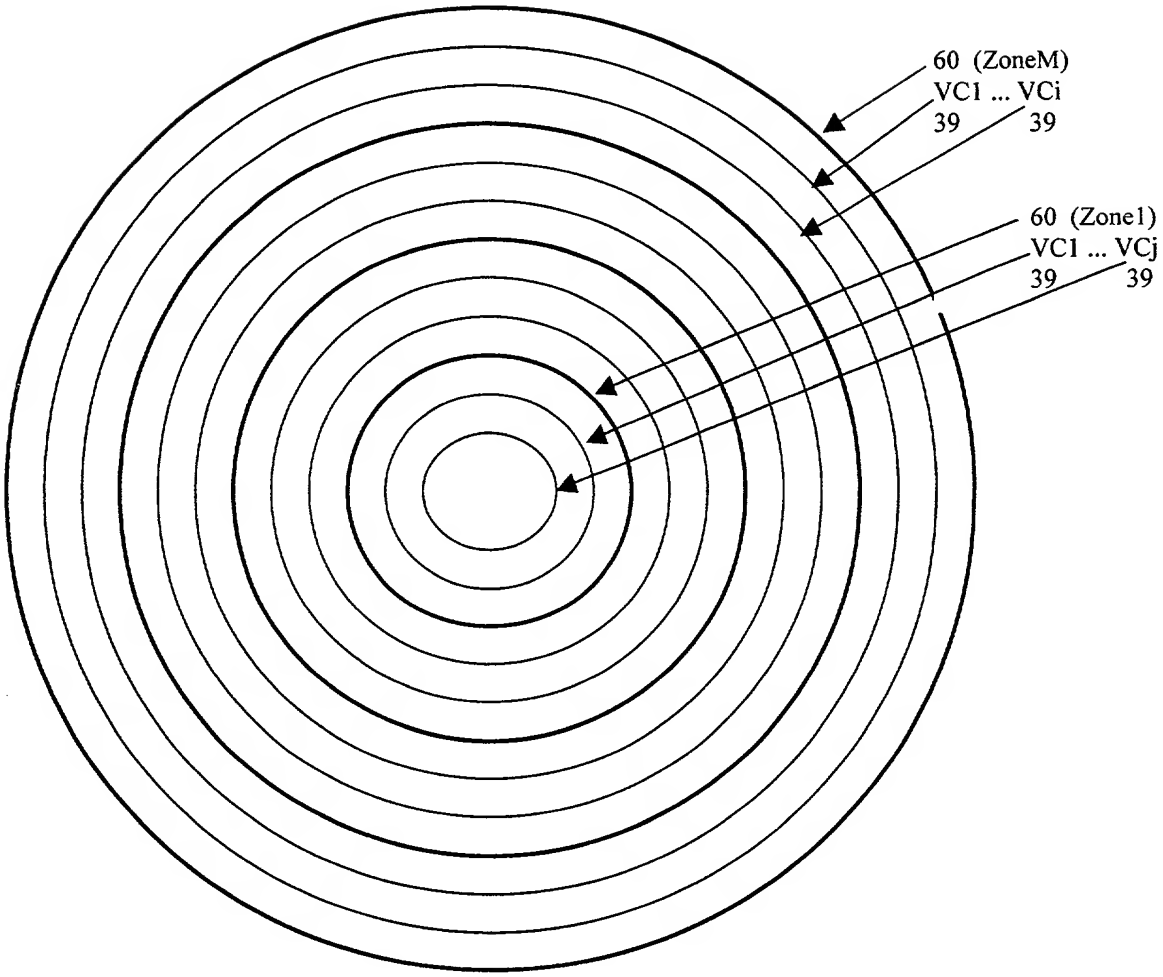
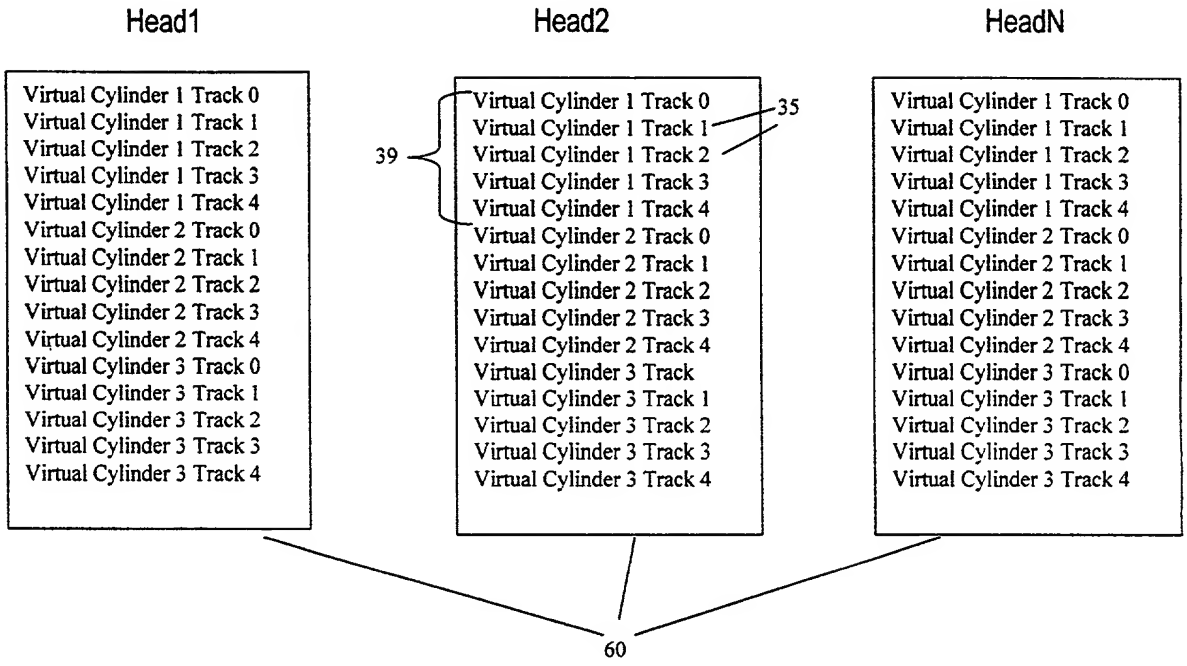


FIG. 1F

10585586.041602

FIG. 1G – Data Tracks in Virtual Cylinders in a Zone



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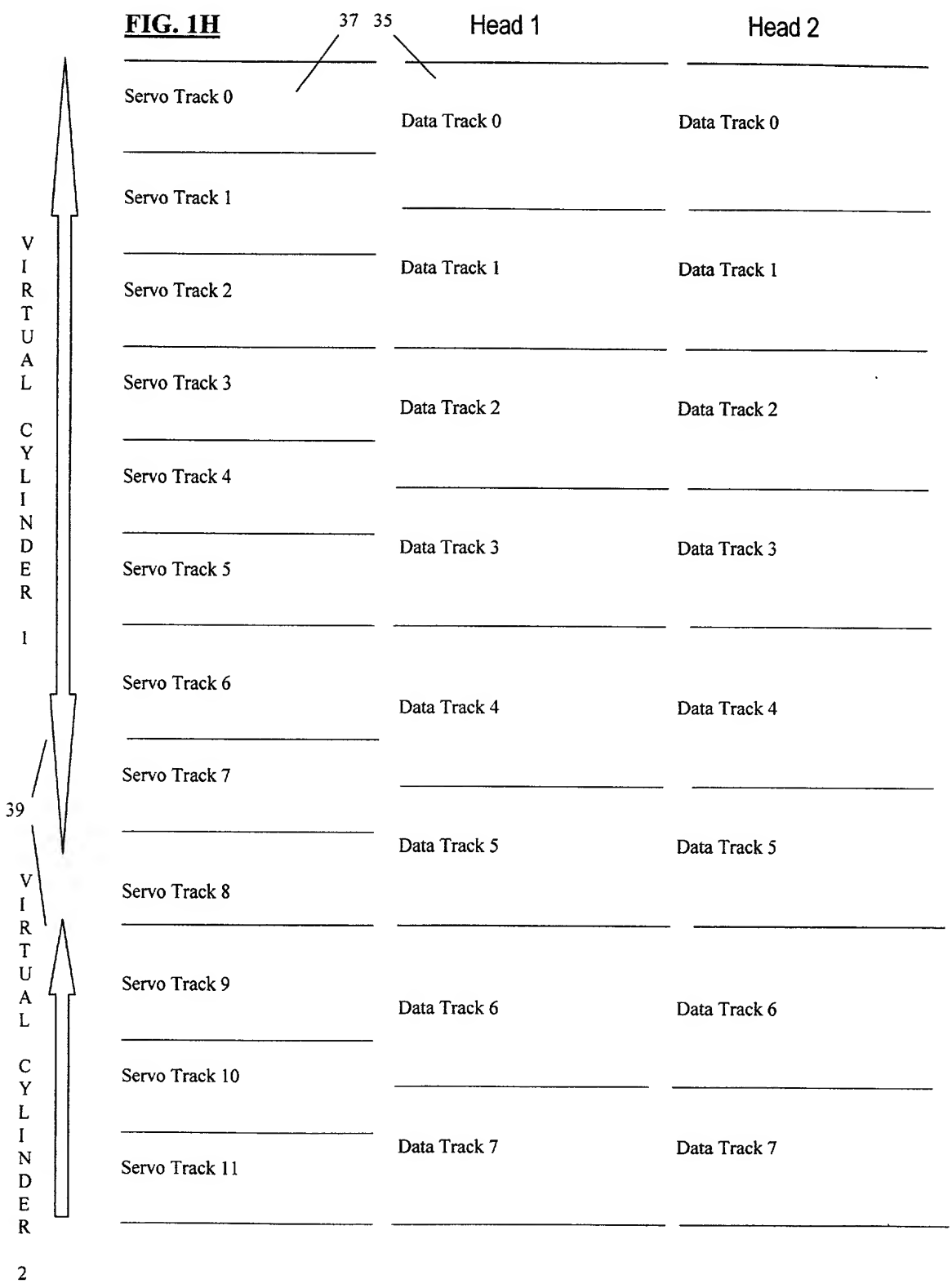
4006696 .042502

FIG. 1H



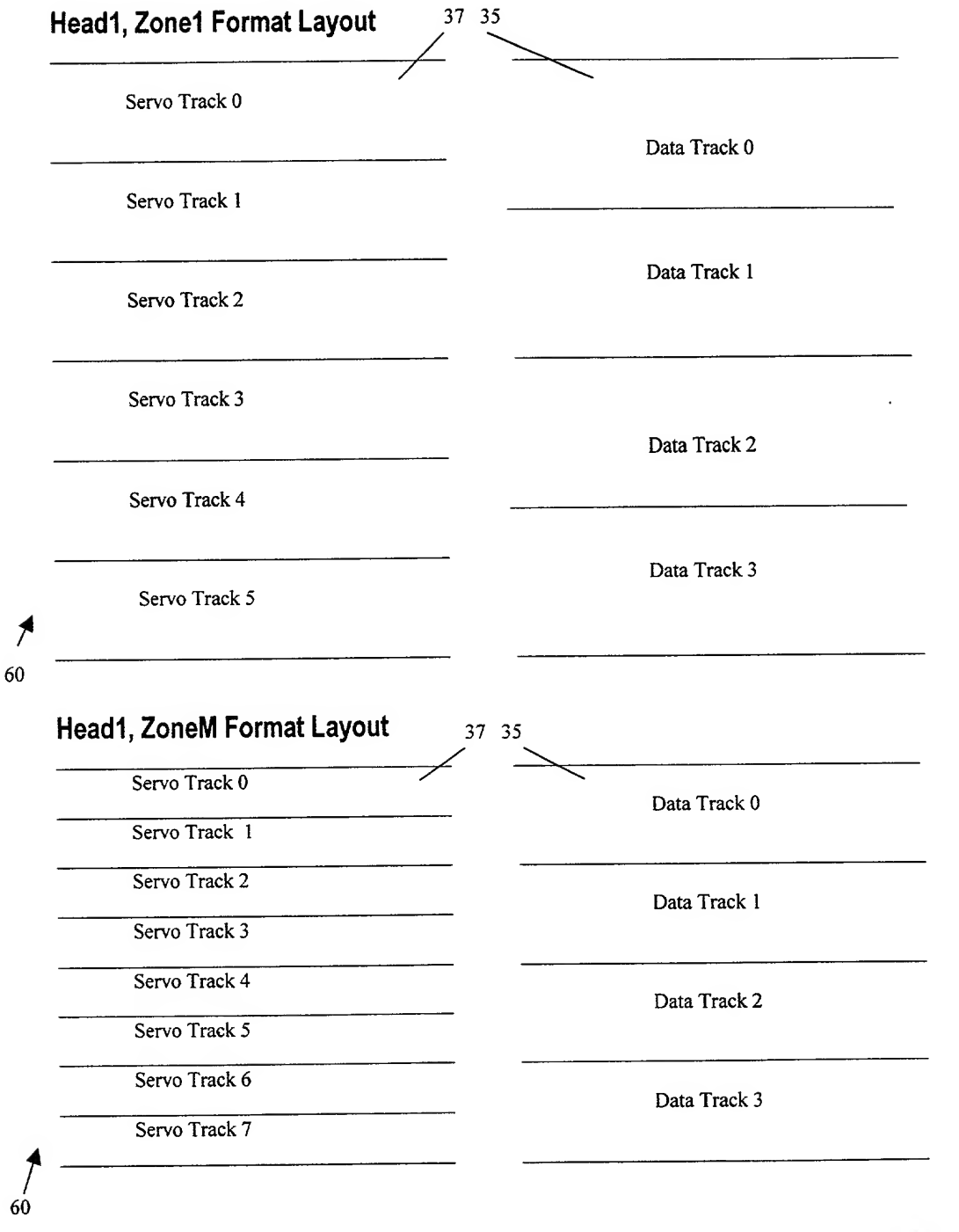


FIG. 1I - Variable Servo Track and Variable Data Track Layout per zone

4056866 - 050200

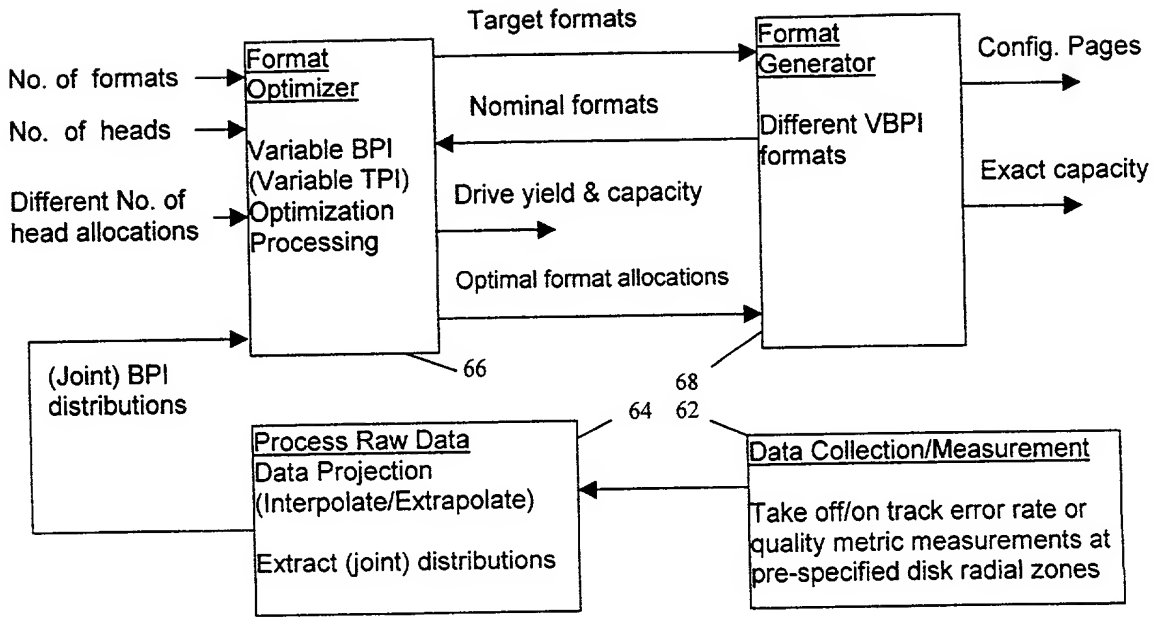


FIG. 2A

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10056565.052602

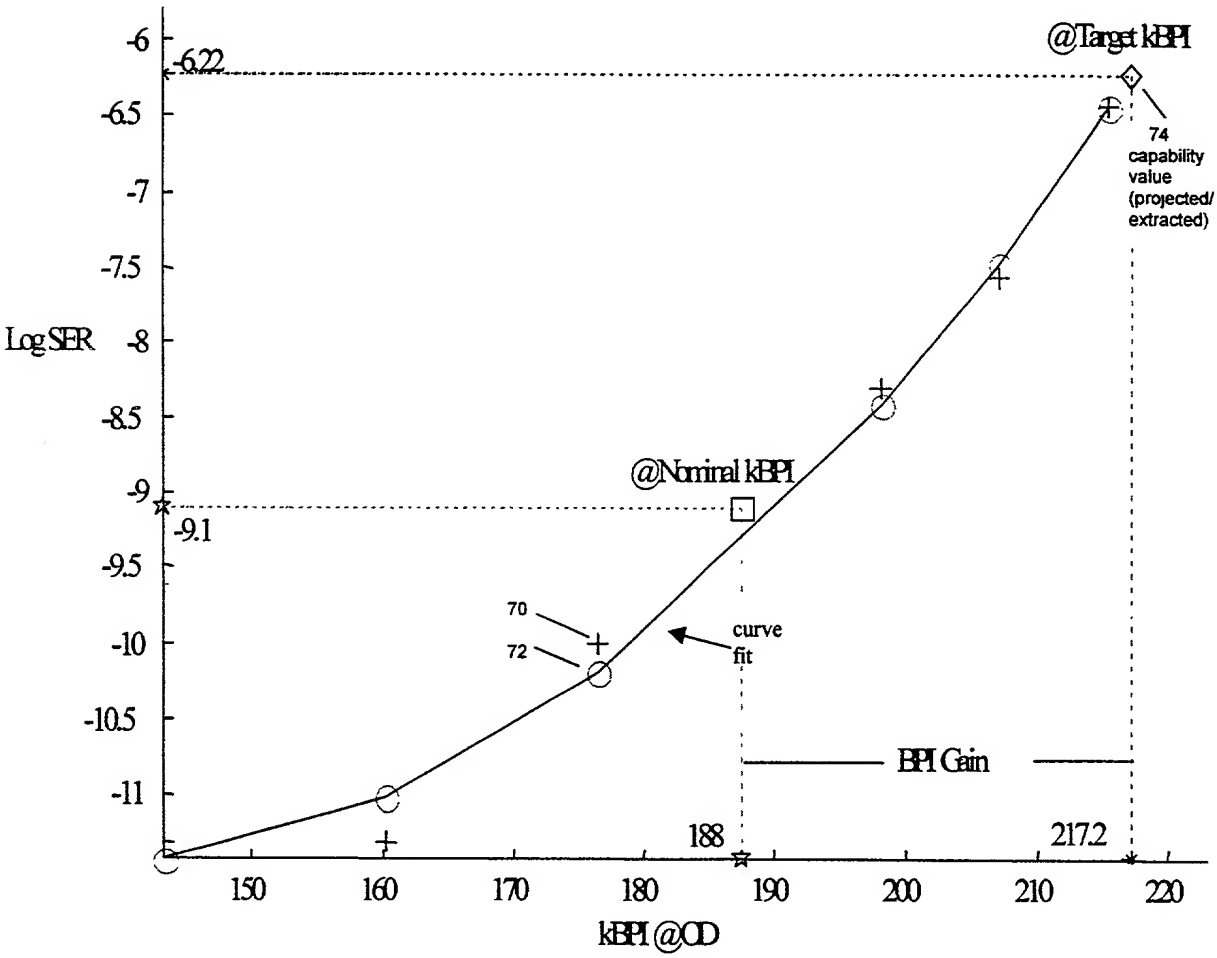

FIG. 2B

Vertical Zoning Data Collection Procedure

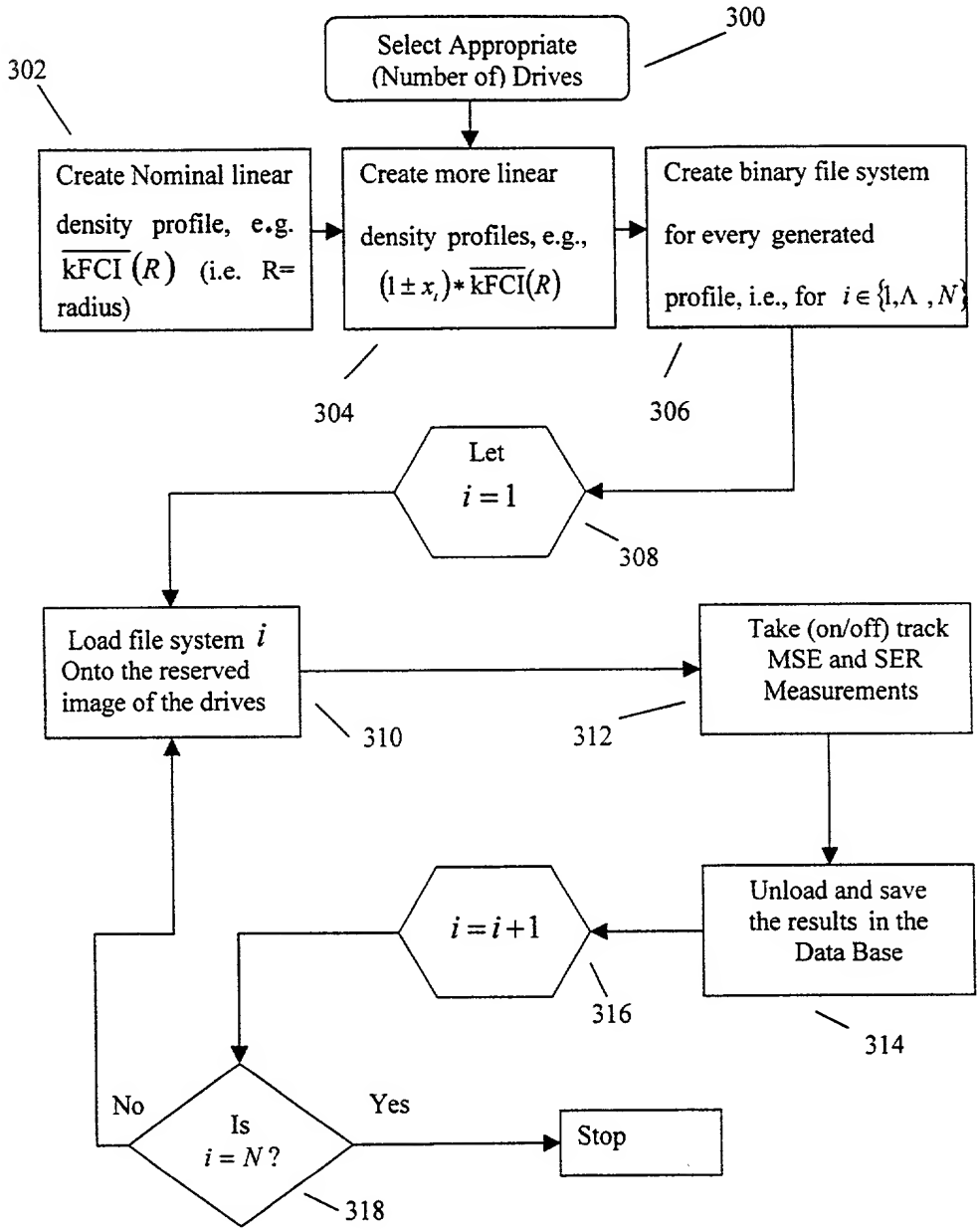

FIG. 3

Vertical Zoning Post-Processing and per zone BPI distribution Extraction

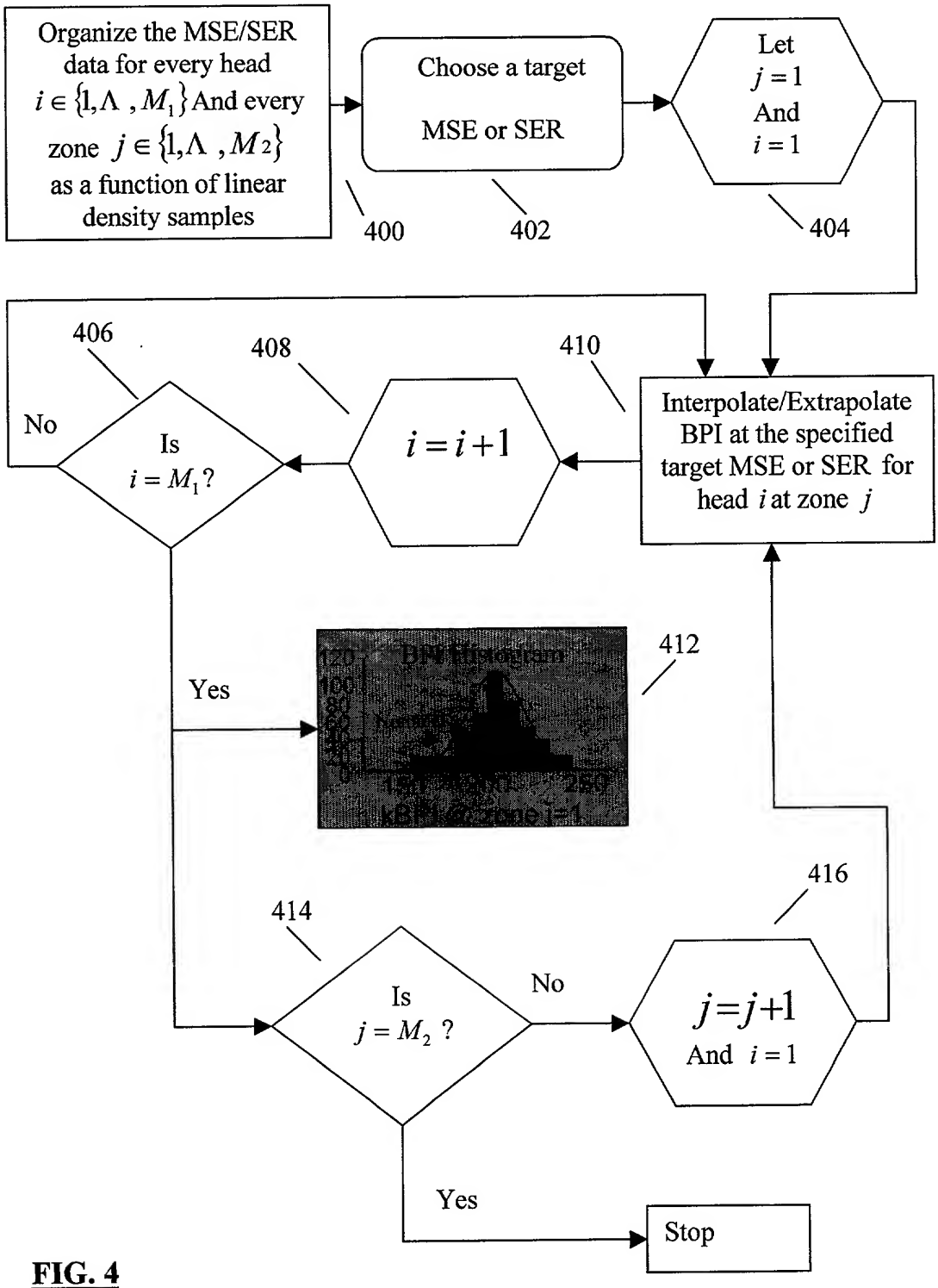

FIG. 4

Head Assignment

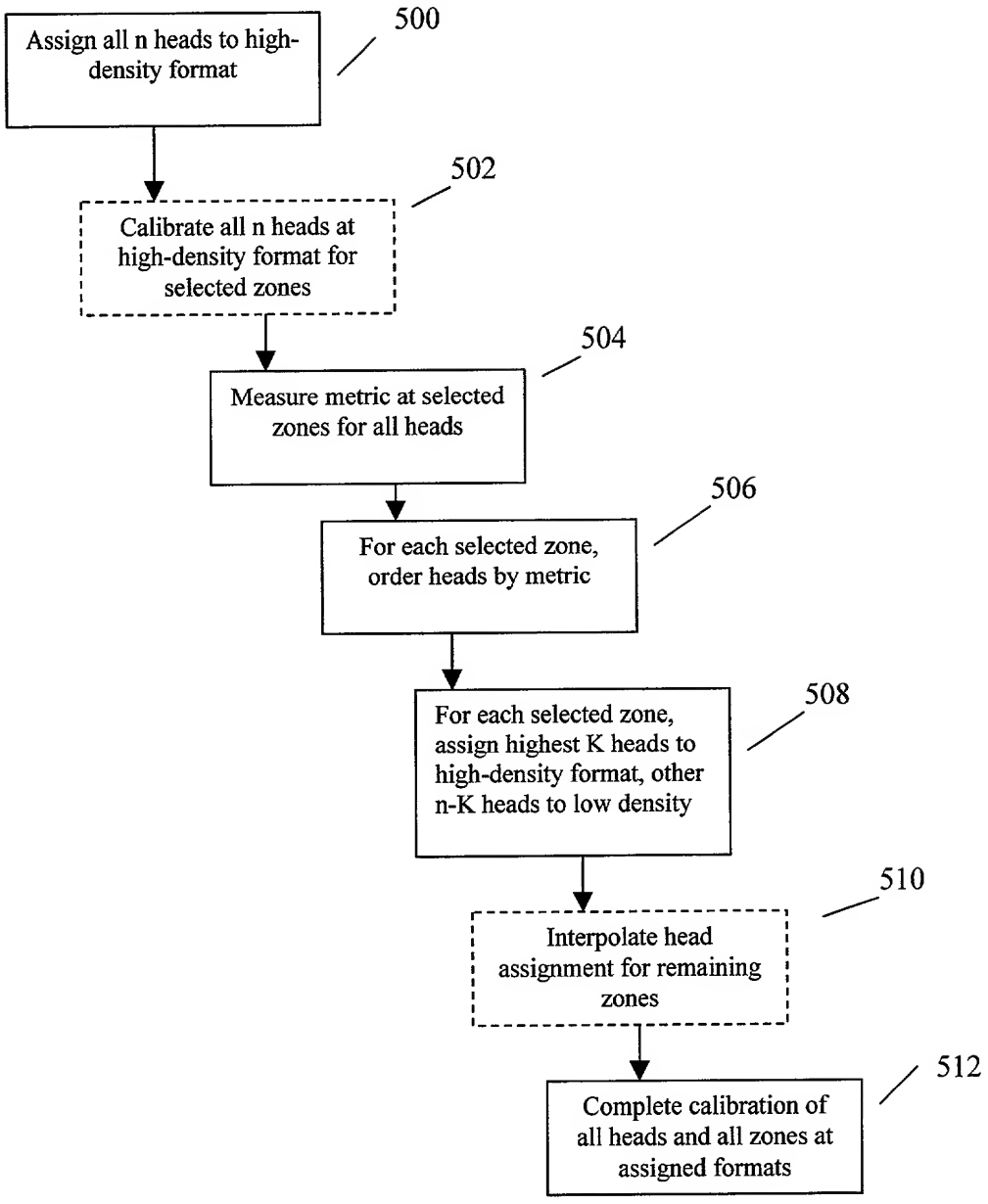

FIG. 5

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Format Generator/Format Optimizer Iteration

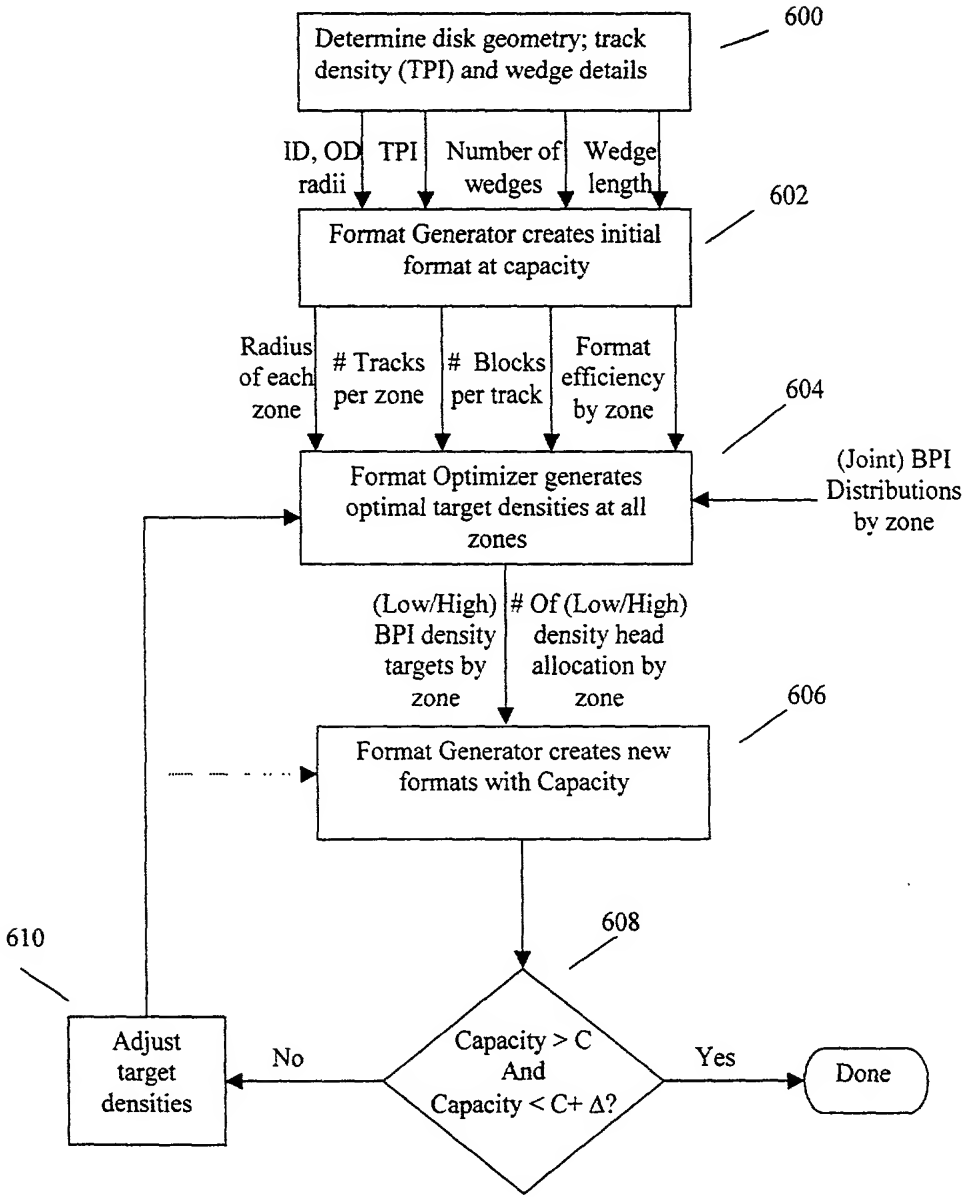

FIG. 6